

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	koide-shohei.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:49
L2	15	fn3 same polypeptide same monobody	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:50
L3	14	fibronectin same polypeptide same monobody	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 11:50

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NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
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=>
=> s koide shohei/au
L1 81 KOIDE SHOHEI/AU

=> s fibronec? (s) monobody (s) polypeptide
L2 5 FIBRONEC? (S) MONOBODY (S) POLYPEPTIDE

=> s fibronec? (s) monobody (s) protien
L3 0 FIBRONEC? (S) MONOBODY (S) PROTIEN

=> s fibronec? (s) monobody (s) protein
L4 4 FIBRONEC? (S) MONOBODY (S) PROTEIN

=> s l2 and l4
L5 2 L2 AND L4

=> d l5 total ibib kwic

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:777271 CAPLUS
DOCUMENT NUMBER: 139:291093
TITLE: Production and identification of polypeptide
monobodies which bind to target proteins and their
uses
INVENTOR(S): Koide, Shohei
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 45 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003186385	A1	20031002	US 2001-6760	20011119
PRIORITY APPLN. INFO.:			US 2000-249756P	P 20001117

AB The present invention relates generally to **polypeptide monobodies** (i.e., antibody mimics), and more particularly to **polypeptide monobodies** derived from the tenth **fibronectin** type III domain from human **fibronectin** (FNfn10). Fnfn10 monobodies and their engineered derivs. exhibit nuclear receptor binding activity, and in particular, binding specificity for the estrogen receptor α (ER α), and can probe conformational changes of ER α in living cells. Polypeptide monobody having target protein binding activity are identified by a yeast two-hybrid method comprising: providing a host cell comprising (1) a reporter gene under control of a 5' regulatory region operable in the host cell, (2) a first chimeric gene which encodes a first fusion polypeptide comprising a target protein, or fragment thereof, fused to a C-terminus of a DNA-binding domain which binds to the 5' regulatory region of the reporter gene, and (3) a second chimeric gene which encodes a second fusion polypeptide comprising a polypeptide monobody fused to a transcriptional activation domain; and detecting expression of the reporter gene, which indicates binding of the polypeptide monobody of the second fusion polypeptide to the target protein such that the transcriptional activation domain of the second fusion polypeptide is in sufficient proximity to the DNA-binding domain of the first fusion polypeptide to allow expression of the reporter gene. The ability of detecting conformational changes of proteins in the native environment should bridge the gap that currently exists between

high-resolution structural information obtained from in vitro techniques and functional information from cell biol. studies. The use of engineered monobody probes for conformational change allows discrimination of a wider variety of conformations than those than are responsible for interactions of the target protein with other natural proteins. Monobodies can also be used as modulators of biol. functions.

IT **Fibronectins**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(production and identification of **polypeptide monobodies** which bind to target **proteins** and their uses)

IT 50-27-1, Estriol 50-28-2, Estradiol, biological studies 56-53-1, Diethylstilbestrol 446-72-0, Genistein 68047-06-3, Hydroxytamoxifen 84449-90-1, Raloxifene 129453-61-8, ICI182780

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(**fibronectin monobody** binding to estrogen receptor in presence of; production and identification of **polypeptide monobodies** which bind to target **proteins** and their uses)

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:8119 CAPLUS

DOCUMENT NUMBER: 130:80347

TITLE: Artificial antibody polypeptides

INVENTOR(S): Koide, Shohei

PATENT ASSIGNEE(S): Research Corporation Technologies, Inc., USA

SOURCE: PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9856915	A2	19981217	WO 1998-US12099	19980612
WO 9856915	A3	19990304		
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2293632	AA	19981217	CA 1998-2293632	19980612
AU 9879596	A1	19981230	AU 1998-79596	19980612
AU 729035	B2	20010125		
EP 985039	A2	20000315	EP 1998-930131	19980612
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE				
JP 2001500531	T2	20010116	JP 1999-503195	19980612
JP 3614866	B2	20050126		
US 2002019517	A1	20020214	US 1998-96749	19980612
US 6673901	B2	20040106		
US 6462189	B1	20021008	US 2000-638202	20000811
US 6703199	B1	20040309	US 2000-637614	20000811
US 2003134386	A1	20030717	US 2002-165155	20020606
US 2003108948	A1	20030612	US 2002-174717	20020618
US 2003170753	A1	20030911	US 2002-190162	20020703
PRIORITY APPLN. INFO.:			US 1997-49410P	P 19970612
			US 1998-96749	A3 19980612
			WO 1998-US12099	W 19980612

AB **A fibronectin type III (Fn3) polypeptide**

monobody, a nucleic acid mol. encoding said **monobody**, and a variegated nucleic acid library encoding said **monobody**, are provided by the invention. Also provided are methods of preparing a Fn3 polypeptide monobody, and kits to perform said methods. Further provided is a method of identifying the amino acid sequence of a polypeptide mol. capable of binding to a specific binding partner (SBP) so as to form a polypeptide:SSP complex, and a method of identifying the amino acid sequence of a polypeptide mol. capable of catalyzing a chemical reaction with a catalyzed rate constant, kcat, and an uncatalyzed rate constant, kuncat, such that the ratio of kcat/kuncat is greater than 10. Fn3 gene was

constructed and modified to include restriction sites. M13 and fd phage display libraries containing loop variegations in the AB, BC, CD, DE, EF OR FG loop were constructed. Ubiquitin-, fluorescein-, digoxigenin-, and transition state analog compound-binding monobodies were selected from polypeptides isolated from the display libraries.

IT Bacteriophage
Coliphage M13
Coliphage fd
DNA sequences
Dissociation constant
Molecular cloning
NMR (nuclear magnetic resonance)
Plasmids
 Protein sequences
Reaction
Transition state structure
Virus
 (artificial antibody **polypeptides** or **monobodies**
 derived from human **fibronectin** type III gene **protein**
)

IT **Fibronectins**
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); CAT (Catalyst use); PRP (Properties);
BIOL (Biological study); PREP (Preparation); USES (Uses)
 (artificial antibody **polypeptides** or **monobodies**
 derived from human **fibronectin** type III gene **protein**
)

IT Physical properties
 (consts., catalysis rate; artificial antibody **polypeptides** or
 monobodies derived from human **fibronectin** type III
 gene **protein**)

IT Gene, animal
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); BIOL (Biological study); PREP (Preparation)
 (**fibronectin** type III; artificial antibody
 polypeptides or **monobodies** derived from human
 fibronectin type III gene **protein**)

IT Conformation
 (loop, **protein**; artificial antibody **polypeptides** or
 monobodies derived from human **fibronectin** type III
 gene **protein**)

IT Antibodies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
BUU (Biological use, unclassified); CAT (Catalyst use); PRP (Properties);
BIOL (Biological study); PREP (Preparation); USES (Uses)
 (**monobody**; artificial antibody **polypeptides** or
 monobodies derived from human **fibronectin** type III
 gene **protein**)

IT Conformation
 (**protein**, binding; artificial antibody **polypeptides**
 or **monobodies** derived from human **fibronectin** type
 III gene **protein**)

IT Crystallography
 (x-ray; artificial antibody **polypeptides** or
 monobodies derived from human **fibronectin** type III
 gene **protein**)

IT 218439-11-3
RL: PRP (Properties)
 (amino acid sequence; artificial antibody **polypeptides** or
 monobodies derived from human **fibronectin** type III
 gene **protein**)

IT 60267-61-0, Ubiquitin
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
 (artificial antibody **polypeptides** or **monobodies**
 derived from human **fibronectin** type III gene **protein**
)

IT 1672-46-4, Digoxigenin 2321-07-5, Fluorescein.

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
(binding **monobody**; artificial antibody **polypeptides**
or **monobodies** derived from human **fibronectin** type
III gene **protein**)
IT 218439-04-4
RL: PRP (Properties)
(nucleotide sequence; artificial antibody **polypeptides** or
monobodies derived from human **fibronectin** type III
gene **protein**)

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FILE 'MEDLINE, BIOSIS, EMBASE, CAPLUS' ENTERED AT 12:20:14 ON 15 APR 2005

L1 81 S KOIDE SHOHEI/AU
L2 5 S FIBRONEC? (S) MONOBODY (S) POLYPEPTIDE
L3 0 S FIBRONEC? (S) MONOBODY (S) PROTIEN
L4 4 S FIBRONEC? (S) MONOBODY (S) PROTEIN
L5 2 S L2 AND L4

=> d l2 total ibib

L2 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:219959 BIOSIS
DOCUMENT NUMBER: PREV200400223026
TITLE: Artificial antibody polypeptides.
AUTHOR(S): Koide, Shohei [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Research Corporation Technologies, Inc.
PATENT INFORMATION: US 6703199 March 09, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Mar 9 2004) Vol. 1280, No. 2.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 21 Apr 2004
Last Updated on STN: 21 Apr 2004

L2 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2004:90218 BIOSIS
DOCUMENT NUMBER: PREV200400094770
TITLE: Artificial antibody polypeptides.
AUTHOR(S): Koide, Shohei [Inventor, Reprint Author]
CORPORATE SOURCE: ASSIGNEE: Research Corporation Technologies, Inc.
PATENT INFORMATION: US 6673901 January 06, 2004
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Jan 6 2004) Vol. 1278, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Feb 2004
Last Updated on STN: 11 Feb 2004

L2 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 2002:611212 BIOSIS
DOCUMENT NUMBER: PREV200200611212
TITLE: Nucleic acids encoding artificial antibody polypeptides..
AUTHOR(S): Koide, Shohei [Inventor, Reprint author]
CORPORATE SOURCE: Rochester, NY, USA
ASSIGNEE: Research Corporation Technologies, Tucson, AZ,
USA
PATENT INFORMATION: US 6462189 October 08, 2002
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Oct. 8, 2002) Vol. 1263, No. 2.

http://www.uspto.gov/web/menu/patdata.html. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 27 Nov 2002
Last Updated on STN: 27 Nov 2002

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:777271 CAPLUS
DOCUMENT NUMBER: 139:291093
TITLE: Production and identification of polypeptide
monobodies which bind to target proteins and their
uses
INVENTOR(S): Koide, Shohei
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 45 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003186385	A1	20031002	US 2001-6760	20011119
PRIORITY APPLN. INFO.:			US 2000-249756P	P 20001117

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:8119 CAPLUS
DOCUMENT NUMBER: 130:80347
TITLE: Artificial antibody polypeptides
INVENTOR(S): Koide, Shohei
PATENT ASSIGNEE(S): Research Corporation Technologies, Inc., USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9856915	A3	19990304		
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EP 985039	A2	20000315	EP 1998-930131	19980612
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US 6673901	B2	20040106		
US 6462189	B1	20021008	US 2000-638202	20000811
US 6703199	B1	20040309	US 2000-637614	20000811
US 2003134386	A1	20030717	US 2002-165155	20020606
US 2003108948	A1	20030612	US 2002-174717	20020618
US 2003170753	A1	20030911	US 2002-190162	20020703
PRIORITY APPLN. INFO.:			US 1997-49410P	P 19970612
			US 1998-96749	A3 19980612
			WO 1998-US12099	W 19980612